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Solution to Problem 1060.

Let O be the center of the circumcircle of $\triangle ABC$. Connect OA, OB, OC, OD, OE and OF. Since $|AD| = |BE| = |CF|$ and $|OA| = |OB| = |OC|$, we have $|OD| = |OE| = |OF|$ because $\triangle ADO \cong \triangle BEO \cong \triangle CFO$. But this last equality defines the radius of the circumcirle of $\triangle DEF$ with center O.

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