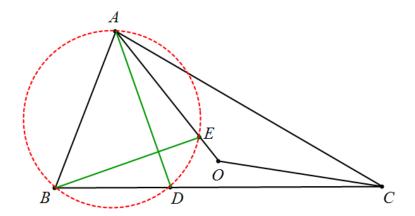
## four points in circle



**Example 1 68:** As shown in Figure 1,  $\triangle$  in ABC, O is the circumcenter, AD is the angle bisector,  $BE \perp AD$  intersects AO at E, and prove that: A, B, D, and E share a circle.

$$\frac{E-B}{\frac{O-A}{C-B}} = \frac{\frac{A-D}{A-B}}{\frac{A-C}{A-C}} \frac{\frac{E-B}{D-A}}{\frac{A-C}{C-O}} \frac{\frac{E-B}{D-A}}{\frac{A-C}{A-B}} \frac{C-B}{C-O},$$